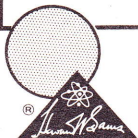
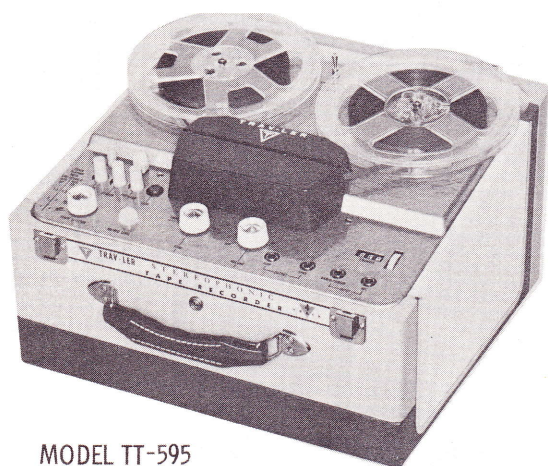
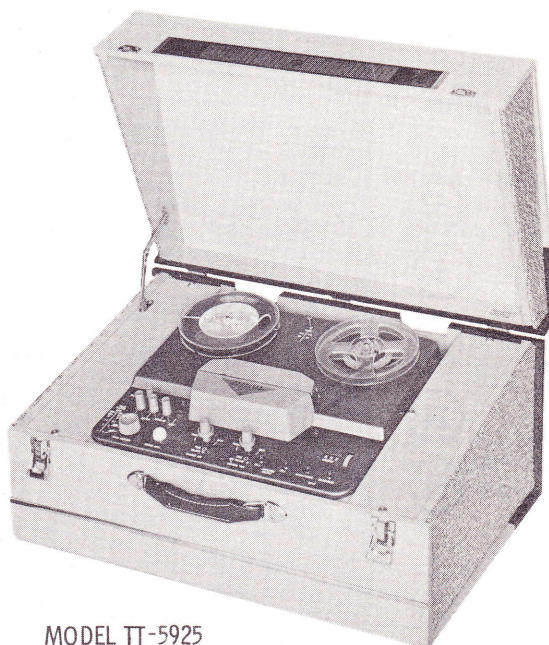


PHOTOFACT® Folder

with CIRCUITRACE®

TRAV-LER MODELS
TT-595, TT-5925, TTS-5930TRAV-LER MODELS
TT-595, TT-5925, TTS-5930

MODEL TT-595



MODEL TT-5925

TRAV-LER MODELS
TT-595, TT-5925, TTS-5930

GENERAL INFORMATION

The Trav-ler Models TT5925 and TT-595 are two-speed, four-track stereo tape recorders.

These recorders have pushbutton controls for each mode of operation. These modes are: Play, Record, Rewind, Fast Forward, and Stop. Model TT-595 is equipped with a Pause lever.

Four track recording is used, giving four full-length monaural recordings on a reel of tape. Any size reel up to 7 inches can be used.

A neon record level indicator is used to simplify recording. A new recording can be made over a previously recorded tape since the recording is erased before new material is recorded. Recordings can be made from a radio, television receiver, or phonograph as well as those made directly from the microphone.

The two tape speeds are: 7 1/2 ips and 3 3/4 ips. Using four tracks, the recording and playing times are as follows:

Reel Size	Dual	Track	Quarter	Track
5" (600 ft.)	3 3/4	7 1/2	3 3/4	7 1/2
7" (1200 ft.)	1 hr.	1 1/2 hr.	2 hrs.	1 hr.
	2 hrs.	1 hr.	4 hrs.	2 hrs.

Connect these recorders to an outlet supplying 110-120 volts AC, 60 cycles only.

Manufactured By:

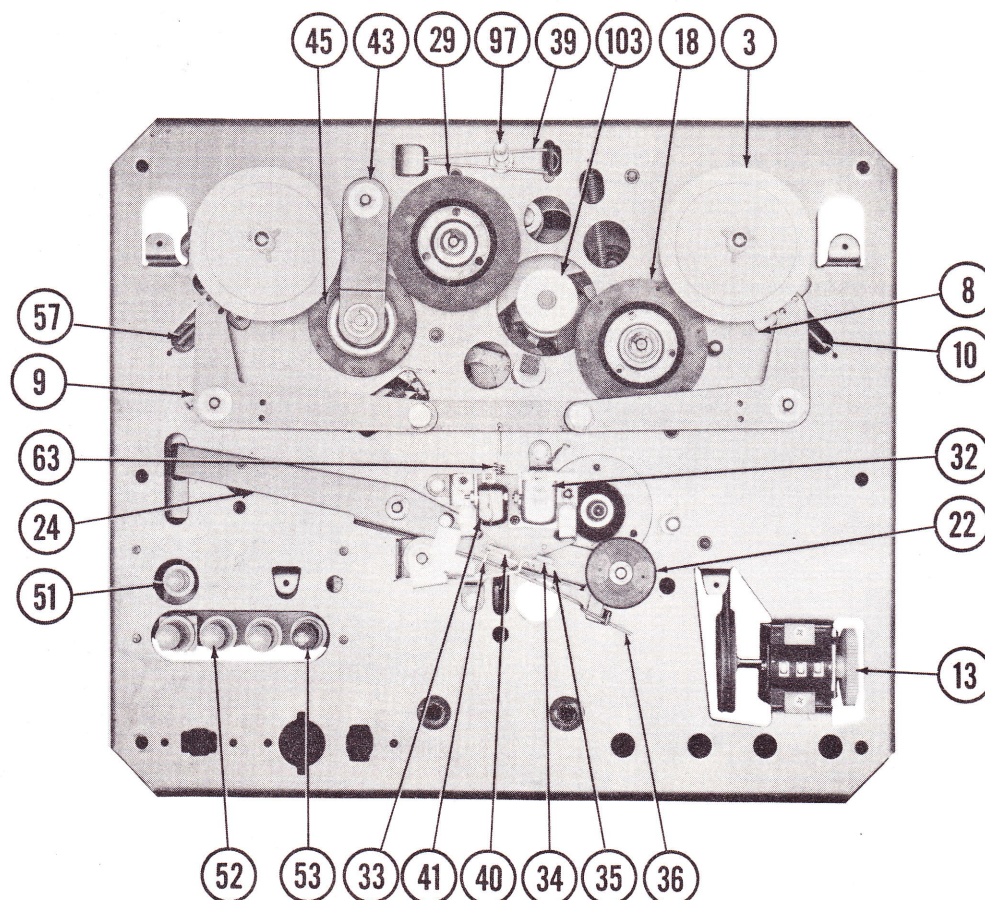
Trav-ler Radio Corporation
57 W. Jackson Blvd.
Chicago 6, Illinois

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of CQ485

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. ©1962 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America





TOP VIEW OF MECHANISM WITH TOP COVER REMOVED

FUNCTION OF CONTROLS

Stop

Depressing the stop button stops the recorder in any mode. This button should be depressed first when going from one mode to another.

Forward

This control advances the tape onto the take-up reel at a rapid speed.

Rewind

This control rewinds the tape onto the supply reel at a rapid speed.

Record

Depressing this button actuates the play-record switch in the amplifier. Any signal fed into the amplifier will be recorded on the tape.

Play

This button places the recorder in the playback mode of operation.

Pause Lever — Model TT-595

The Pause lever allows the operator to stop the tape travel for short periods of time.

Channel Selector

The Channel Selector selects the channel or channels the recording is to be made on, or played back on.

Speed Change Knob

In the down position, the recorder is set for 7 1/2 ips. In the up position, 3 3/4 ips. The Stop button must be depressed before operating the Speed Change knob.

On-Off-Volume

Turning the control clockwise turns the power on to the recorder. Further rotation increases the volume level.

Tone

Turning this control clockwise will increase the high frequencies and decrease the low frequencies.

OPERATING INSTRUCTIONS

Threading the Tape

1. Place a reel of tape on the supply spindle (left).
2. Place an empty reel on the take-up spindle (right).
3. Unwind two feet of tape from the supply reel, hold a section taut and insert it in the tape slot.
4. Insert the free end into one of the slots in the take-up reel and turn the reel a few turns to secure the tape to the reel and to take up all slack between reels.

Speed Change

To play or record at 7 1/2 ips, depress the Speed Change knob. To play or record at 3 3/4 ips, raise the Speed Change knob.

CAUTION: The Stop button must be depressed before changing speeds.

Channel Selector

This control selects the channel or channels the recording is to be played on. The channels for side one of a reel are 1-4; and for side two, they are 3-2.

Recording Monaurally – Quarter Track

1. Thread the tape, see "Threading the Tape".
2. Set the Speed Change to the desired speed.
3. Set the Channel Selector to the 1-4 position.
4. Plug the microphone into the microphone input jack.
5. Turn the recorder on by rotating the On-Off-Volume control knob clockwise.
6. Depress the Record button, talk into the microphone and adjust the volume control until the Record Indicator flashes on the loudest passage.
7. Depress the Record button and at the same time depress the Play button to lock the Record button down.
8. After track one is recorded, depress the Stop button.
9. Remove the full and empty reels, turn them over, place the full reel on the supply spindle, and the empty reel on the take-up spindle.
10. Rethread the tape.
11. Place the Channel Selector in the 3-2 position.
12. Proceed with the recording.
13. After track two is recorded, reverse the reels, rethread the tape, and proceed with the recording.
14. After track three is recorded, reverse the reels, place the Channel Selector in the 1-4 position,

rethread the tape, and proceed with the recording.

Playing Monaural Recordings – Quarter Track

1. Thread the tape.
2. Set the Speed Change to the speed the tape was recorded.
3. Set the Channel Selector in the 1-4 position.
4. Turn the recorder on by rotating the On-Off-Volume control clockwise.
5. Depress the Play button.
6. Adjust the Volume and Tone controls to the desired listening level.
7. When all the tape is wound onto the take-up reel, depress the Stop button, reverse the reels, set the Channel Selector in the 3-2 position and depress the Play button.
8. After the second track is played through, depress the Stop button, reverse the reels, leave the Channel Selector in the 3-2 position and depress the Play button.
9. After the third track is played through, depress the Stop button, reverse the reels, set the Channel Selector in the 1-4 position and depress the Play button.

Stereo Playback – Quarter Track

1. Thread the tape.
2. Set the Channel Selector to Stereo.
3. With side one of the reels up, tracks 1 and 3 will be played back.
4. After the tape is wound onto the take-up reel, reverse the reels and depress the Play button. Tracks 4 and 2 will be played back with side two of the reels up.

Stereo Playback – Dual Track

1. Thread the tape.
2. Set the channel selector to Stereo.
3. Depress the Play button and adjust the Volume and Tone controls so they are equal.

Fast Forward or Reverse

When a certain portion of the tape is to be played over again, it is not necessary to rewind the entire tape. The tape will advance or rewind at a rapid speed to the desired place by depressing the Forward Rewind button.

Tape Timer

If you wish to play back a certain recording, note the reading on the timer scale when the recording

TRAVLER MODELS
TT-595, TT-5925, TTS-5930

FOLDER 15

is being made or heard. Rewind or advance the tape to the number on the scale and then depress the Stop button. Depress the Play button and the desired recording will be played back.

When starting a new reel of tape, reset the timer pointer to "O" by rotating the reset knob. By starting at "O" on all tapes, the number location can be catalogued for each recording on any reel.

Erasing Recorded Material

Set the channel selector as outlined in Recording Monaurally—Quarter Track.

The erase head is energized when the Record button is depressed, erasing any previous recording before a new one is made. Tapes may be erased without putting new material on the tapes by depress-

ing the Record button and turning the Volume control to its minimum position.

To Edit and Splice Tape

NOTE: Since it is impossible to edit and splice one track without affecting the others, recordings which are to be edited should be limited to one track only.

1. Tape may be edited by cutting out unwanted portions or by joining selections into another sequence. Announcements may be inserted between selections, etc. Unused sections can be spliced together for re-use.
2. For best results, cut the tape at a slight diagonal, join ends together with splicing tape on the glossy side and trim off any excessive width.

DISASSEMBLY

Model TT-5925 Removing the Recorder from the Case —

1. Remove the four screws holding the top plate (6) and remove the top plate.
2. Remove the screws holding the top panels, one on each side, and lift the panels off.
3. Unsolder the speaker leads and preamplifier leads.
4. Unplug the preamplifier.
5. Turn the recorder on its side and remove the four screws on the bottom and lift the bottom grill off.
6. Lift the recorder from the cabinet.
7. Reverse the foregoing procedure to reassemble.

Model TT-595 Removing the Recorder from the Case —

1. Remove the four screws holding the top plate (6) and remove the top plate.
2. Remove one screw in the front and middle of the case.

3. Remove four screws from the bottom of the case holding the bottom grill and lift the grill off.
4. Carefully lift the recorder from the case.
5. Reverse the foregoing procedure to reassemble.

To Remove the Amplifier from the Transport Mechanism

1. Remove all input and output sockets.
2. Disconnect the erase and play-record heads.
3. Disconnect the motor leads.
4. Remove the plug-in leads from the printed board.
5. Remove six screws holding the printed board to the metal frame.
6. Remove the switch actuating link.
7. Carefully lift the printed board away from the metal frame.
8. Reverse the foregoing procedure to reassemble.

ADJUSTMENTS

Inproper Tracking of Tape Reels

The feed and take-up reel spindles are identical. They are mounted on a flanged shaft, and held in place by Phillips head screws and flat washers. If the reel spindles wear, to where the tape scrapes on the reels, shim washers can be added between the reel and flange shaft until the reels are properly aligned. Always depress the play button whenever replacing the spindle, in order to prevent damaging the cork brake lining.

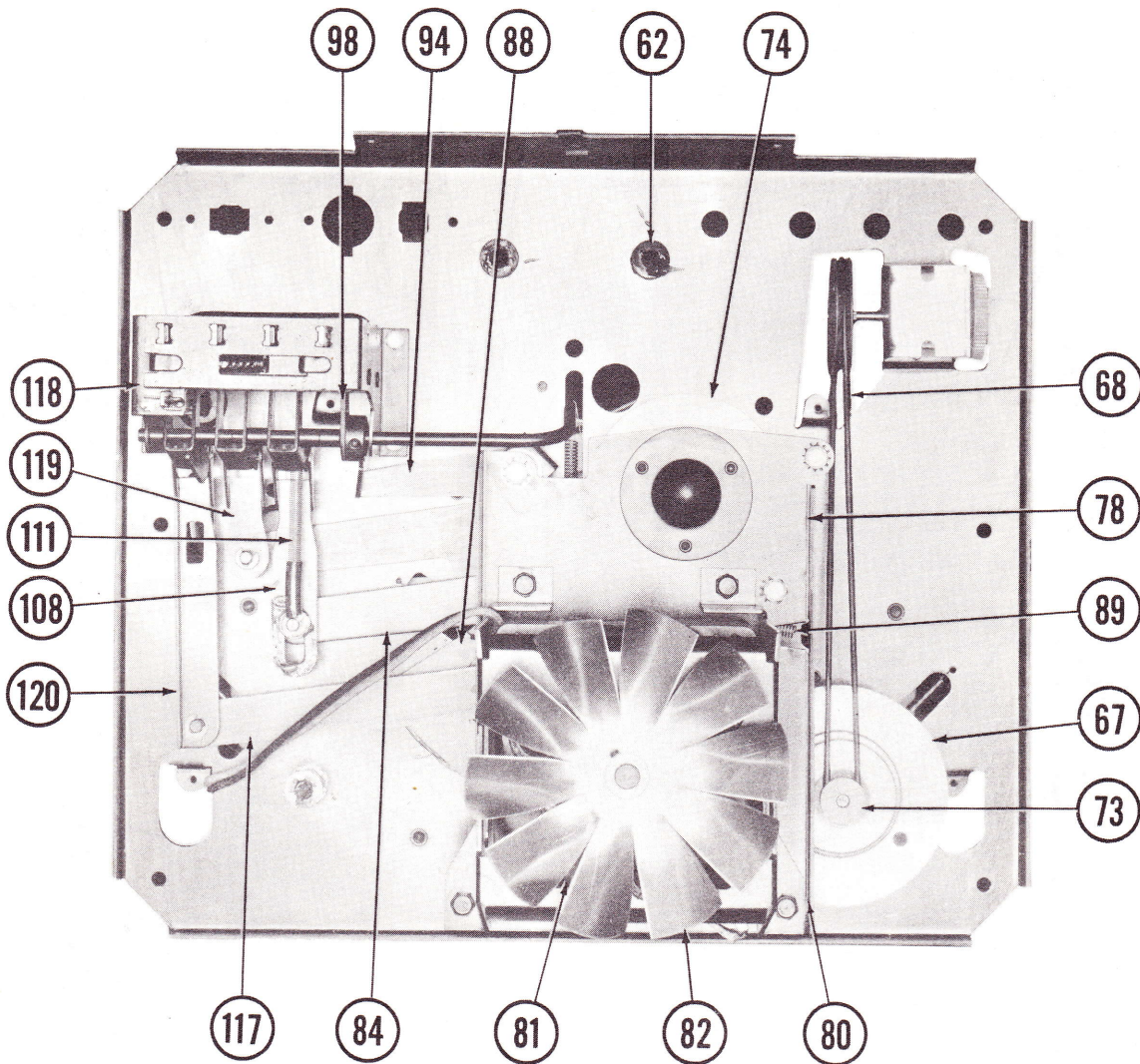
Pressure Roller

Connect an inch-ounce scale to the end of pressure roller lever assembly (24). Pull the pressure

roller free from the capstan. If the reading is less than 16 inch-ounces, bend pressure roller spring (36) to increase the pressure.

Take-up Tension

Place an empty 7-inch reel on the take-up spindle. Attach a short loop of string to the outside reel edge. Connect a gram scale (with a minimum reading of 60 grams) to the string. Hold the scale parallel to the recorder and at right angles to the take-up spindle. Depress the Play button and note the reading. If it is above or below 60 grams, remove the mechanism from the case and disassemble as described under "Disassembly".



BOTTOM VIEW OF MECHANISM

Remove the clutch pulley (73). Clutch spring (71) and clutch lining (69) can now be slipped off take-up spindle shaft (65). If the reading was over 60 grams, the felt should be saturated in a solution of one part No. 31 turbine oil and 15 parts carbon tetrachloride. After saturation, allow the felt to dry for 30 minutes before reassembling the clutch. If the reading was less than 30 grams, replace the tension spring (71) and/or belt, as required.

Record-Play Head

1. Remove head cover (4).

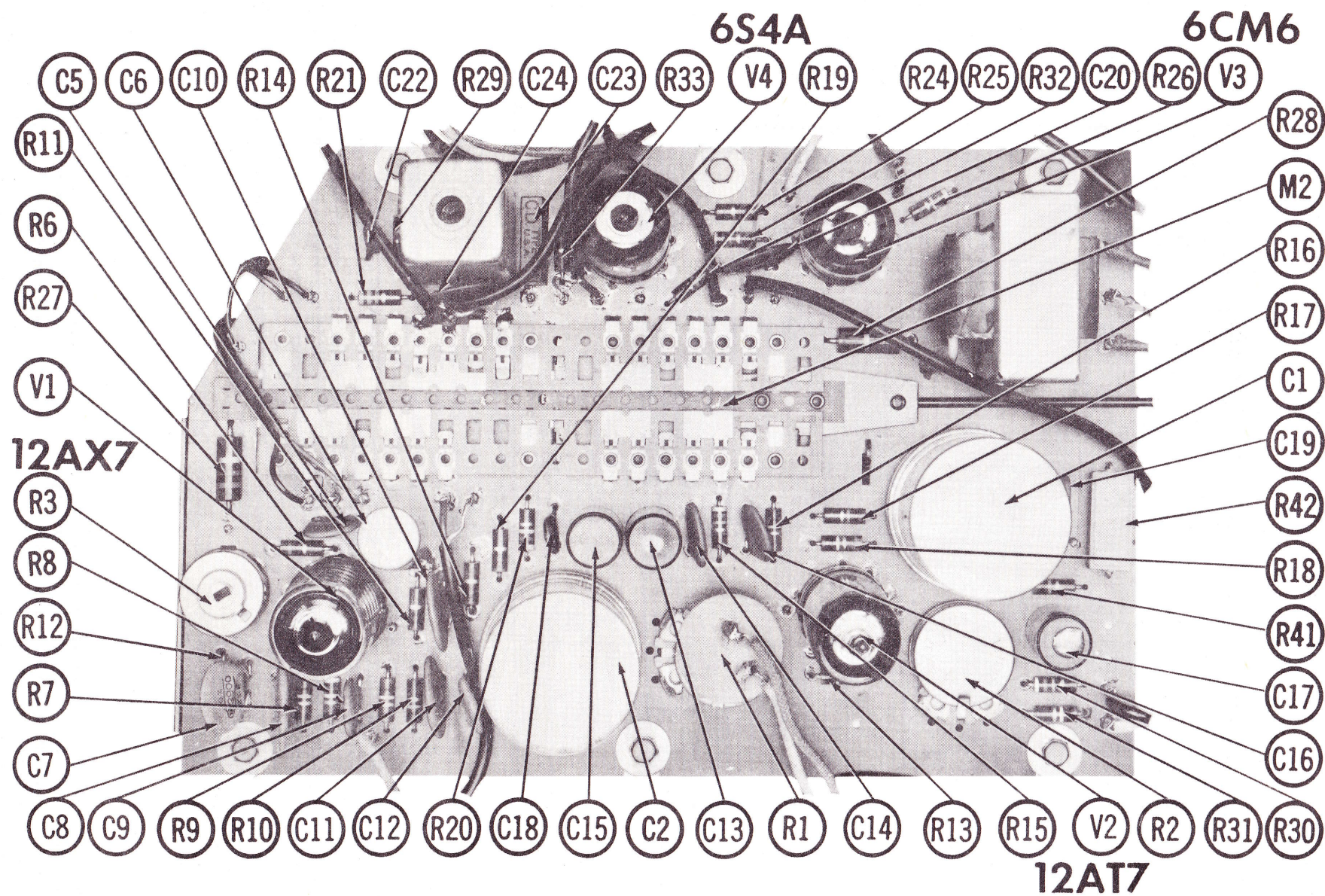
2. Thread an alignment tape on the recorder.
3. Depress the play button.
4. Loosen the head mounting nuts, and move the head up and down and back and forth until maximum output is obtained.
5. Hold the head in this position and tighten the nuts.

CLEANING

The Record-play head and erase head, the pressure pads, the pressure roller, and the capstan should be cleaned regularly with a soft cloth and alcohol. As the tape passes these parts, oxide is worn from the tape and deposited on them. This oxide will cause faint recordings and playback, poor erasure, and wow if not removed.

LUBRICATION

All bearings are of the oilite type. Therefore, no further lubrication is necessary. When removing levers to make repairs on the tape-transport mechanism, use a clinging-type grease to lubricate these parts where they slide in their slots or against each other.



MODEL TT-595 PRINTED BOARD TOP VIEW

TT-595 AMP PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	AF Amplifier	12AX7	V4	Bias Oscillator	684A	V5	Stereo Preamp.	ECC83/12AX7 Note 1
V2	AF Amplifier	12AT7	V6	Rectifier	6X4			
V3	Output	6CM6						

Note 1. Not used in some versions.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	TRAV-LER PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	30	450	701800			XC3-39 †		
B	50	350						
C	40	25						
C2A	40	300	701681					PCLS-4560, 7*
B	40	300						
C	50	25						
D	50	25						
C3	10	25	70658	PRSI250	BBR10-25	QT1-5	TC22	TD-10-25 TVA-1204

† Use Printed Circuit Adapter Kit PMA1.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	20 NPO 10%	Note 1	NPO-DI 20	DTZ-20	C10Q3C	CCTO-200	CNO-422	10TCC-Q20
C5	90 N750 10%		N750-DI 100	TCN-91	C10Q1C	CCTN-101	CN7-310	10TCU-T10
C6	.1 200V							
C7	.0039 10%		DI-4000		PM6D4	CCD-392	JL-239	10TS-D39
C8	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C9	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C10	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C11	.0047		BPD-0047	DD-472	BYA10D47	CCD-472	B-247	5HK-D47
C12	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C13	.047 400V		P4151N-047	DD-503	BC6S47J	4DP-3-473	ACE-6147	4SE-S47
C14	270 N2200 10%	(150) †						
C15	.047 400V		P4151N-047	DD-503	BC6S47J	4DP-3-473	ACE-6147	4SE-S47
C16	50 N33 10%							
C17	.022 400V		P4151N-022	DD-203	BC6S22J	4DP-2-223	ACE-6122	4SE-S22
C18	200 10%		DI-200	DD-201	L10T2	CCD-201	GP320	10TS-T20
C19	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C20	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C21	.01 10%		DI-10000		DM6S1	CCD-103	10TS-S10	MS-339
C22	390 5%				5R5T39	CM-19B-391J	GP215	10TS-D15
C23	.0015 10%		1469-0015		5R5D15	CM-19B-152K	B-120	5HK-D20
C24	.02	(200) †	BPD-02	DD-203	BYB6S2	CCD-203	CCTN-101	10TCU-T10
C25	90 N750 10%		N750-DI 100	TCN-91	C10Q91C	CCD-101	CN7-310	TA-010
C26	.1 30V				H-05P1	IDP-2-104	B-110	TG-P10
C27	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-120	5HK-S10
C28	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C29	.0039 10%		DI-4000		PM6D4	CCD-392	JL-239	10TS-D39
C30	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C31	.01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10

Note 1. Shielded Unit.

† Alternate Value.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESISTANCE	WATTS	TRAV-LER PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	500K	1/2	702008 ①					Volume
B	Switch							Power Off-On
R2	5000Ω	1/2	702007					Tone
R3	200Ω	1/2	701849					Hum Adjust

① Part #800749 used in some versions.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R4	22K				R24	2.2meg			Note 1
R5	1meg				R25	47K			
R6	2.7meg				R26	470K			
R7	150K				R27	270Ω 1W			
R8	470K				R28	15Ω 1W			
R9	150K				R29	22K			
R10	220K				R30	47K			
R11	1500Ω				R31	100K			
R12	22K				R32	22K			
R13	100K				R33	1800Ω			
R14	1500Ω				R34	27K			
R15	47K				R35	2.7meg			
R16	220K				R36	150K			
R17	15K				R37	68K			
R18	100K				R38	470K			
R19	1500Ω				R39	150K			
R20	470K			(220K) *	R40	1500Ω			
R21	33K				R41	10K			
R22	100K				R42	1000Ω			
R23	27K								

* Alternate.

Note 1. Not used in some versions.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRAV-LER PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Osc.	800556					

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V @ .47A	580VCT @ .060A	6.3V @ 2.6A	800453H ①					① Some versions use Part #800442.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	4500Ω	6-8Ω	800566					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	TRAV-LER PART No.	QUAM PART No.	
SP1	5 1/4"	PM	3-4Ω	800445	52A1	
SP2	5 1/4"	PM	3-4Ω	800446	52A1	

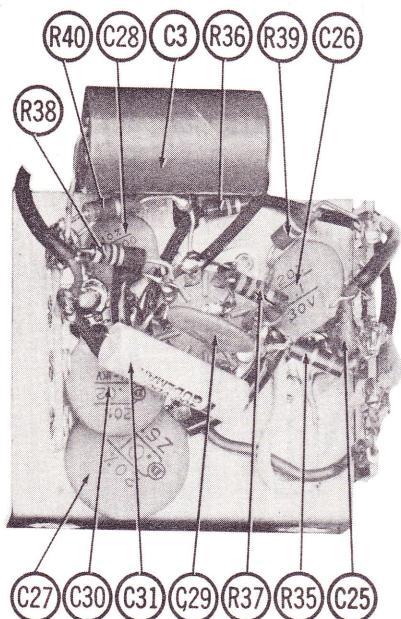
MISCELLANEOUS

ITEM No.	PART NAME	TRAV-LER PART No.	NOTES
M1	Switch	70655	Channel Selector (Rotary Wafer Type)
M2	Switch	072027 (or)	Record-Playback (Slide Type)
	Switch	076373	Record-Playback (Slide Type)
M3	Switch	70611	Monitor (Toggle Type)

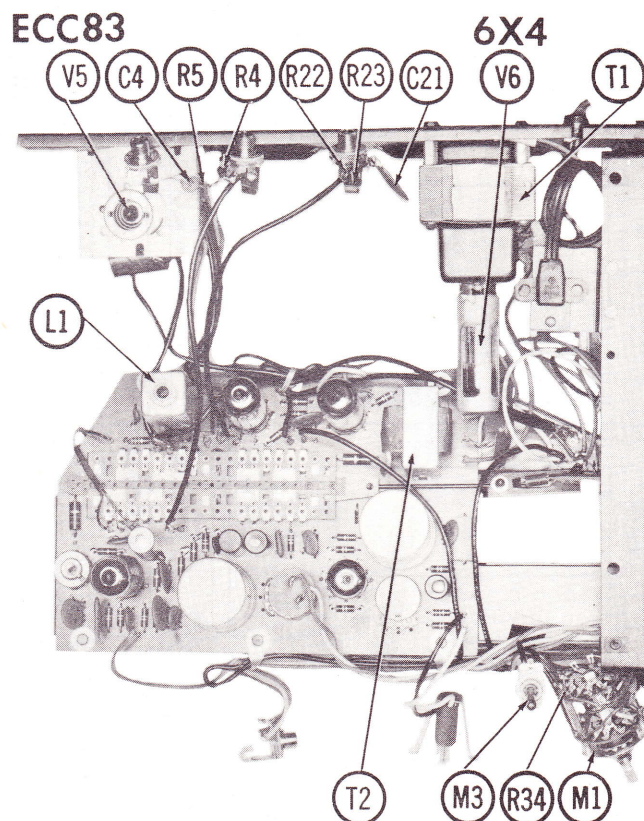
WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
 8524 (Stranded) Available in Ten Colors
 Power Cord Use BELDEN No. 1765-B (6 Ft. Length)
 1725-K (7 1/2 Ft. Length)
 Phono Pick-up Arm Cable Use BELDEN No. 8430 (Two Conductor - Twisted)

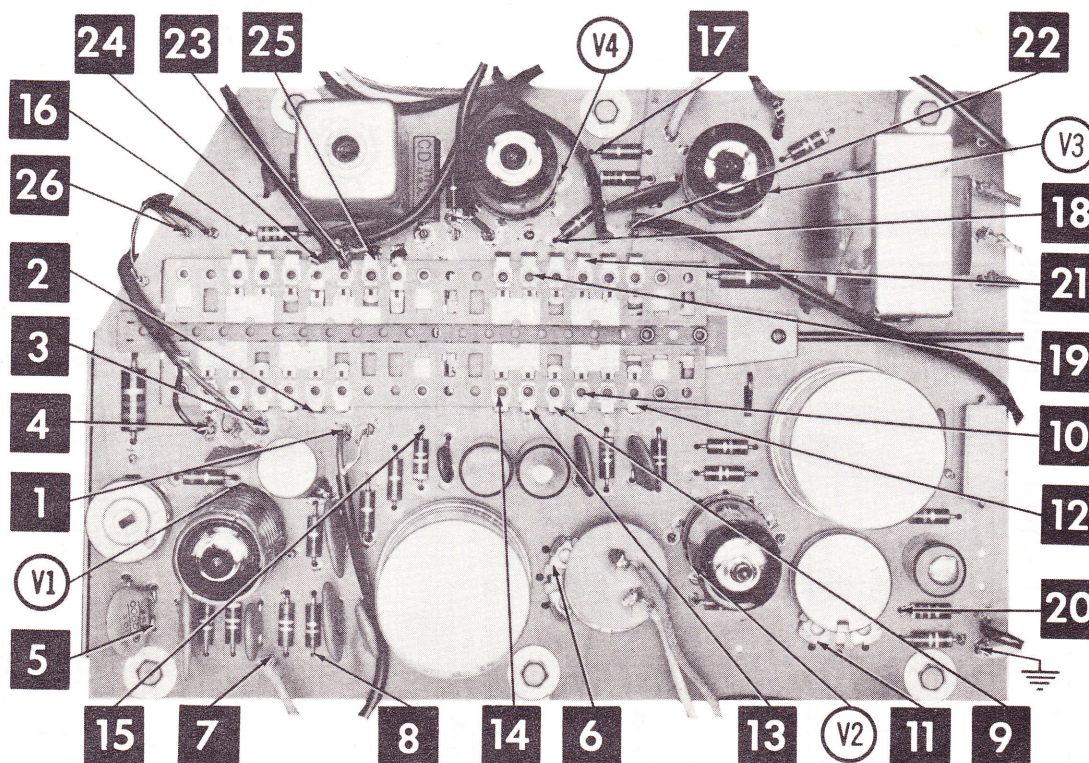
TT-595, TT-5925, TT-5930
 TRAV-LER MODELS



MODEL TT-595 STEREO PREAMP.



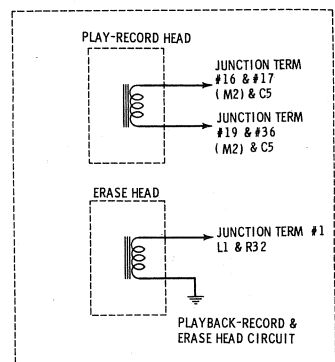
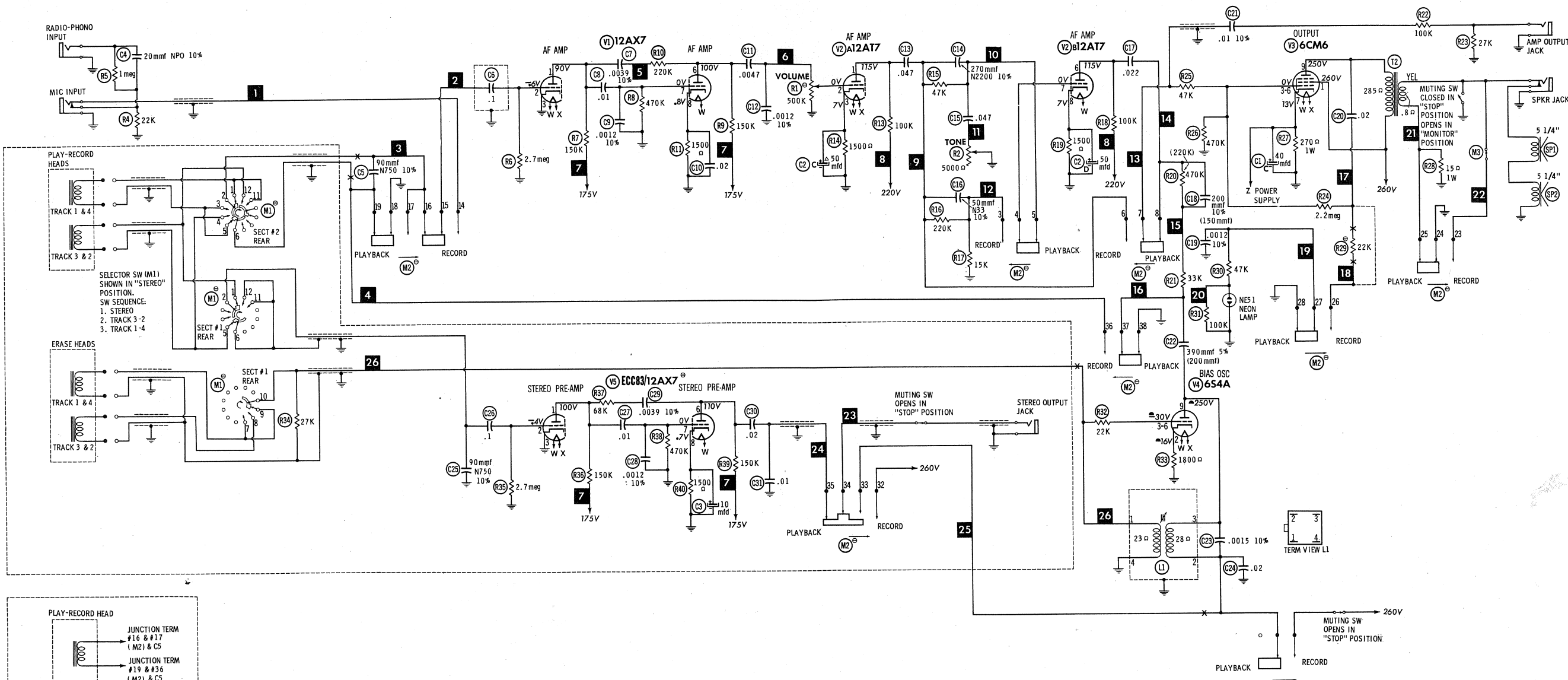
MODEL TT-595 AMP. CHASSIS TOP VIEW



MODEL TT-595 PRINTED BOARD

A Howard W. Sams CIRCUITRACE® Photo

ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
- All controls at minimum; proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

A PHOTOFAC STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

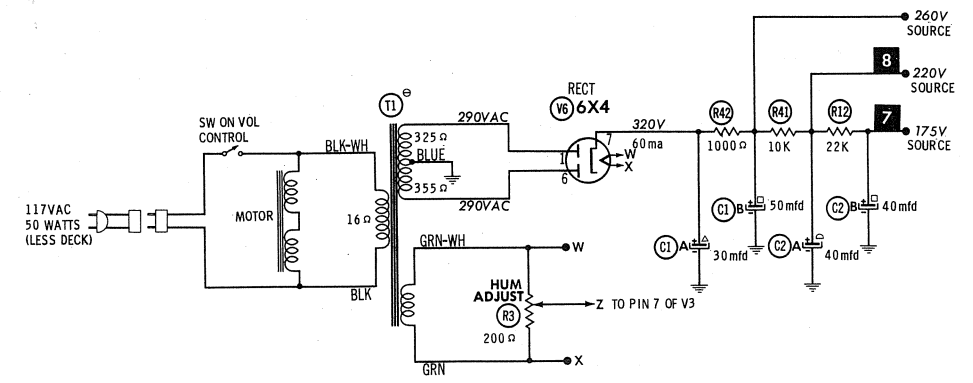
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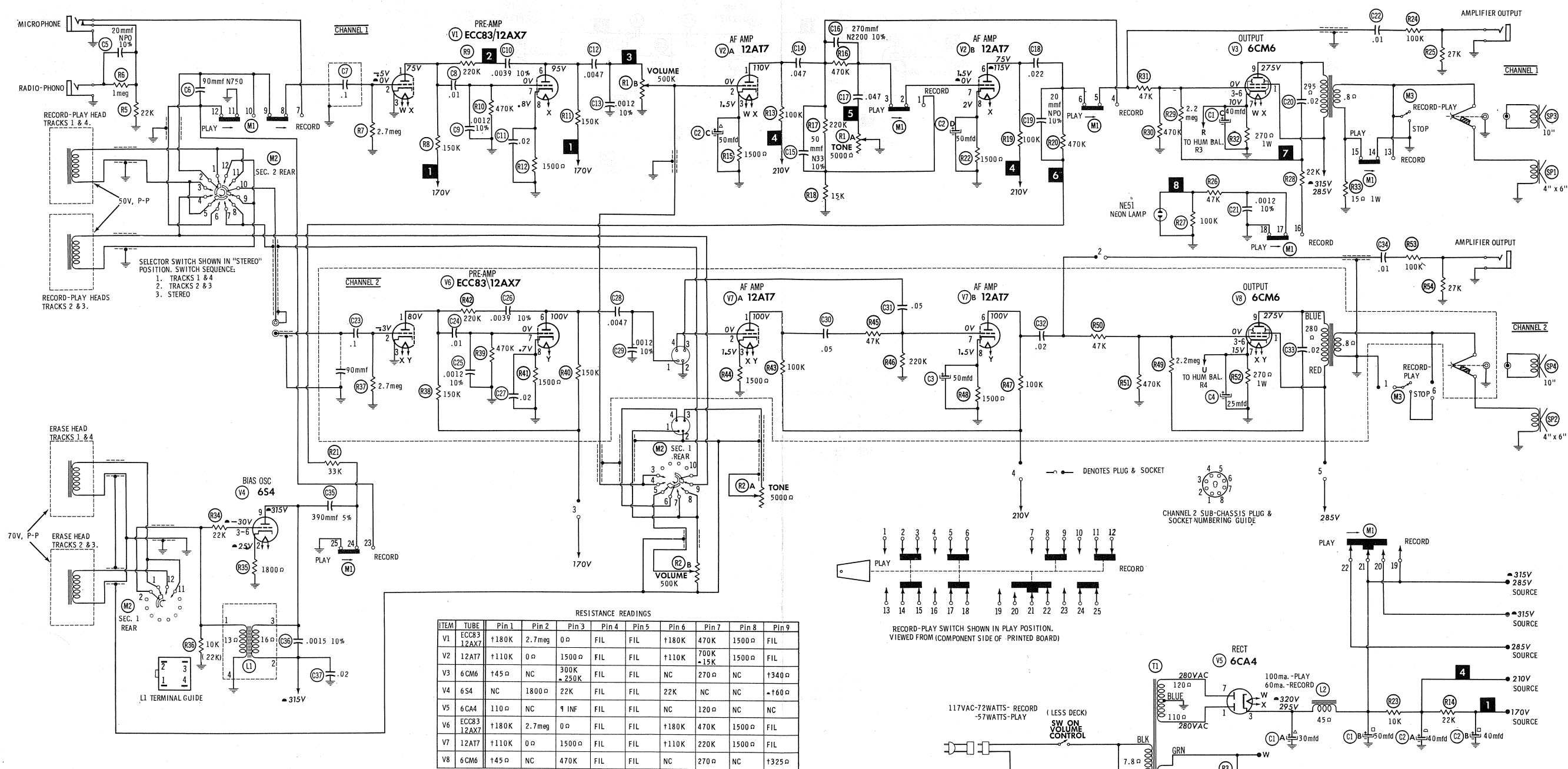
TERM VIEW RECORD-PLAYBACK SW (M2)

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	1180K	2.7meg	0Ω	FIL	FIL	1180K	470K	1500Ω	FIL
V2	12AT7	1110K	0Ω	1500Ω	FIL	FIL	1110K	285K	1500Ω	FIL
V3	6CM6	11000Ω	NC	260K	FIL	FIL	260K	270Ω	NC	11300Ω
V4	654A	NC	1800Ω	22K	FIL	FIL	NC	NC	NC	11000Ω
V5	12AX7	1180K	2.7meg	0Ω	FIL	FIL	1180K	470K	1500Ω	FIL
V6	6X4	325Ω	NC	FIL	FIL	NC	355Ω	1		

ALL MEASUREMENTS TAKEN IN "PLAY" POSITION UNLESS OTHERWISE INDICATED
 † MEASURED FROM PIN 7 OF V6
 ‡ MEASURED IN "RECORD" POSITION
 ¶ THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN CIRCUIT.





NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

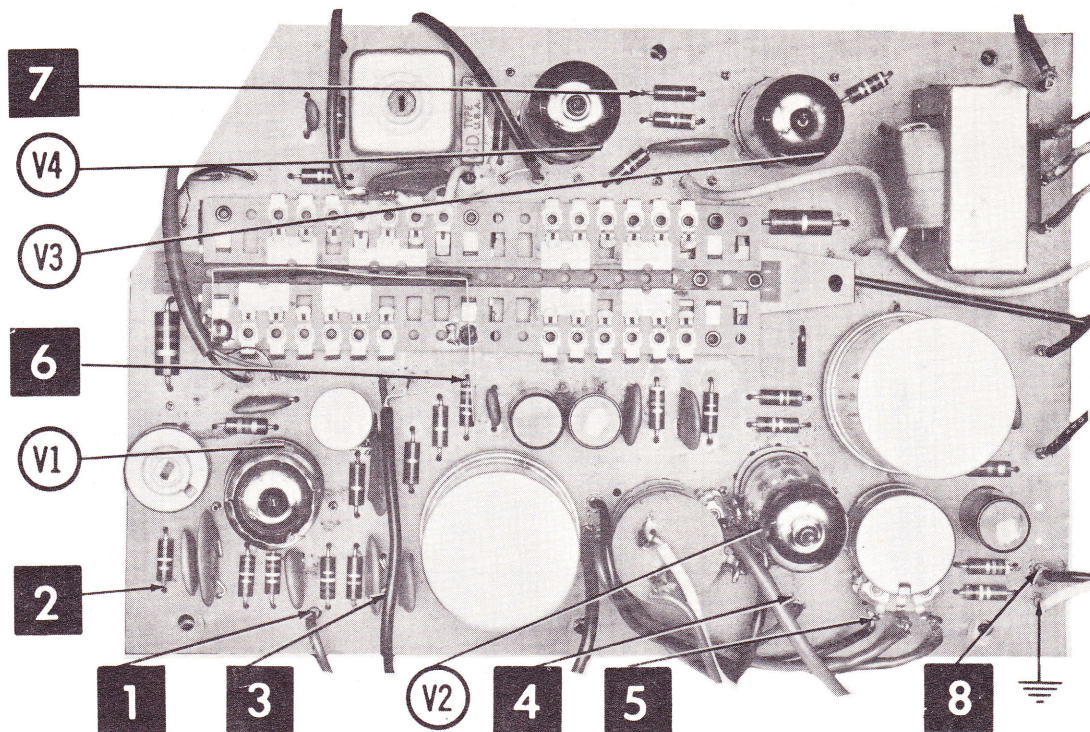
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A PHOTOFACIT STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

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MODEL TT-5925

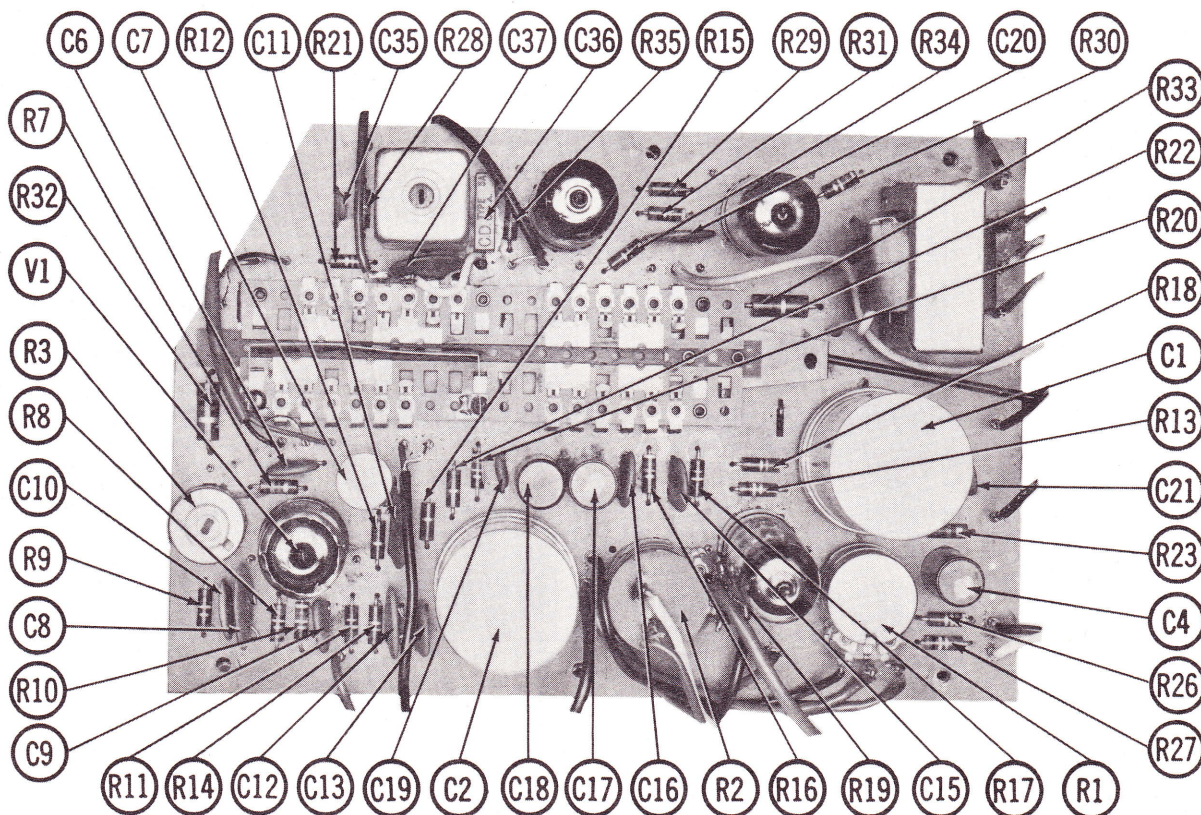
TRAV-LER
MODEL TT-5925



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MODEL TT-5925 PRINTED BOARD

ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



MODEL TT-5925 PRINTED BOARD

TRAV-LER MODELS
TT-595, TT-5925, TT-5930

FOLDER 15

TT-5925 AMP PARTS LIST AND DESCRIPTIONS

TUBES

AMPEREX			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE		TYPE			ITEM No.	USE		TYPE		
V1	Channel 1 Preamp.		ECC83/12AX7			V5	Rectifier		6CA4		
V2	Channel 1 AF Amp.		12AT7			V6	Channel 2 Preamp.		ECC83/12AX7		
V3	Channel 1 Output		6CM6			V7	Channel 2 AF Amp.		12AT7		
V4	Bias Oscillator		684			V8	Channel 2 Output		6CM6		

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			TRAV-LER PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
RIA	Tone, Channel 1	5000Ω	VC-235				■ UE4264
B	Volume, Channel 1	500K					
R2A	Tone, Channel 2	5000Ω	VC-236				■ UE4263-S
B	Volume, Ch. 2 & Switch	500K					
R3	Hum Balance, Ch. 1	200Ω (2W)	701849				
R4	Hum Balance, Ch. 2	200Ω (2W)	701849				

■ "STA-LOC" equivalent: FA53L, RU55A, OF3500, IS3937.

▲ "STA-LOC" equivalent: FA53L, RU55A, OF3500, IS3937, US41.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	TRAV-LER PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	▲30	450	701800						
B	■50	350							
C	40	25							
C2A	▲40	300	701681						PCLS-4560.7*
B	■40	300							
C	▲50	25							
D	50	25							
C3	50	15	EC-58 ①	PRS1265	NLW50-15	MT1-16	TT15X50	MLV50-15	TE-1160
C4	25	50	EC-124	PTT95	NLW25-50	MT1-12	TC36	MLV25-50	TVA-1306

① Some versions may use 40mfd@12V in this application. (Part #EC-84).

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN TV PART No.	REMARKS			IRC PART No.	WORKMAN TV PART No.	REMARKS
R5	22K				R30	470K			
R6	1meg				R31	47K			
R7	2.7meg				R32	270Ω 1W			
R8	150K				R33	15Ω 1W			
R9	220K				R34	22K			
R10	470K				R35	1800Ω			
R11	150K				R36	10K			
R12	1500Ω				R37	2.7meg			
R13	100K				R38	150K			
R14	22K				R39	470K			
R15	1500Ω				R40	150K			
R16	470K				R41	1500Ω			
R17	220K				R42	220K			
R18	15K				R43	100K			
R19	100K				R44	1500Ω			
R20	470K				R45	47K			
R21	33K				R46	220K			
R22	1500Ω				R47	100K			
R23	10K				R48	1500Ω			
R24	100K				R49	2.2meg			
R25	27K				R50	47K			
R26	47K				R51	470K			
R27	100K				R52	270Ω 1W			
R28	22K				R53	100K			
R29	2.2meg				R54	27K			

* Alternate.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C5	20 NPO 10%		NPO-DI 20	TCZ-20	C10Q2C	CCTO-200	CNO-422	10TCC-Q20
C6	90 N750		N750-DI 100	TCN-91	C10Q91C	CCTN-101	CN7-310	10TCU-T10
C7	.1 200V		P2151N-1	DF-104	BC2P1J	2DP-3-104	ACE-401	2SE-P10
C8	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C9	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C10	.0039 10%		DI-4000		PM6D4	CCD-392	JL-239	10TS-D39
C11	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C12	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C13	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C14	.047 400V		P4151N-047	DD-503	BC6S47J	4DP-3-473	ACE-6147	4SE-S47
C15	50 N33 10%	#701788				*		
C16	270 N2200 10%	#701789						
C17	.047 400V		P4151N-047	DD-503	BC6S47J	4DP-3-473	ACE-6147	4SE-S47
C18	.022 400V		P4151N-022	DD-203	BC6S22J	4DP-2-203	ACE-6122	4SE-S22
C19	20 NPO 10%		NPO-DI 20	DTZ-20	C10Q2C	CCTO-200	CNO-422	10TCC-Q20
C20	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C21	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C22	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C23	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P10
C24	.01		BPD-01	DD-103	CCD-103	B-110	5HK-S10	
C25	.0012 10%		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C26	.0039 10%		DI-4000		PM6D4	CCD-392	JL-239	10TS-D39
C27	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C28	.0047		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C29	.0012		DI-1200	DD-122	5R5D12	CCD-122	GP212	10TS-D12
C30	.05 400V		P488N-05	DD-503	CUB4S5	4DP-3-473	GEM-415	4TM-S50
C31	.05 400V		P488N-05	DD-503	CUB4S5	4DP-3-473	GEM-415	4TM-S50
C32	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C33	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C34	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C35	390 5%				5R5T39	CM-19B-391J		MS-339
C36	.0015 10%		1469-0015		5R5D15	CM-19B-152K	MCB456	MS-215
C37	.02		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20

Trav-Ler Part Number.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		TRAV-LER PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Bias Osc.	500-556					

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (10 CURRENT 1000 ~)	TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
L2	.100A	45Ω	1 HY	FC-5	C-2994 ①	C-2343	26C44 ①	C-24X	① Drill New Mounting hole(s).

TT-5925 AMP PARTS LIST AND DESCRIPTIONS (Cont)

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA				NOTES	
	PRI.	SEC. 1	SEC. 2	TRAV-LER PART No.	Merit PART No.	Stancor PART No.		Thordarson PART No.
T1	117V @ .68A	560VCT @ .100A DC	6.3V @ 2.5A	TR-58				

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
			TRAV-LER PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
	PRI.	SEC.					
T2	45002	6-82	800566				
T3	66002	6-82	AT-56				S-63X

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		TRAV-LER PART No.	QUAM PART No.	
SP1	4"x 6" PM	SPK-87	46A0726.4	* Used in TTS-5930 Optional External Speaker Case.
SP2	4"x 6" PM	SPK-87	46A0726.4	
SP3	10" PM	SPK-102*	10A31PA	
SP4	10" PM	SPK-102*	10A31PA	

MISCELLANEOUS

ITEM No.	PART NAME	TRAV-LER PART No.	NOTES
M1	Switch	SW-42	Record-Playback Function Selector
M2	Switch	SW-43-1	
M3	Switch	SW-44	

CABINETS & CABINET PARTS

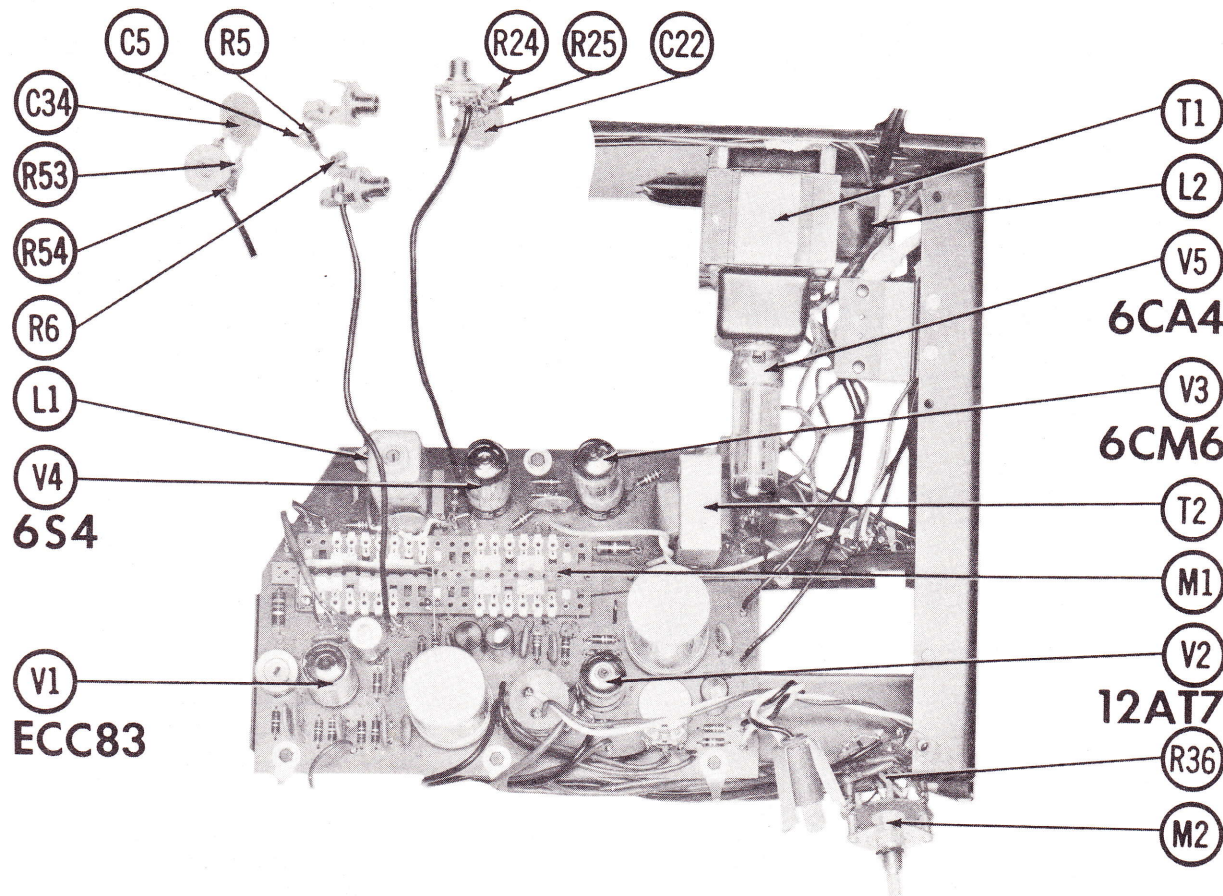
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

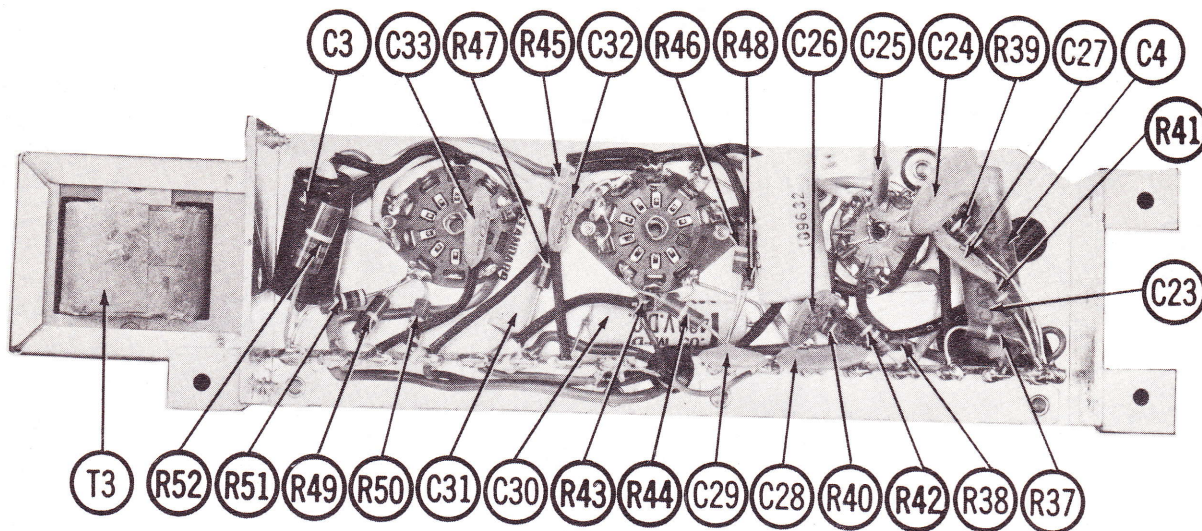
NAME	PART NO.	DESCRIPTION
Knob, Volume	K-457	Inside, Black Case
Knob, Volume	K-461	Outside, Black Case
Knob, Channel	K-381	Black Case
Knob, Volume	K-460	Inside, Brown Case
Knob, Volume	K-462	Outside, Brown Case
Knob, Channel	K-415	Brown Case
Case	CA410	
Handle	CH-127	

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	17106 (Plastic) or 17126 (Rubber) - 6 Ft.
Low-Loss Shielded Lead (Interconnecting)	17109 (Plastic) or 17129 (Rubber) - 6 Ft.
Photo Pick-up Arm Cable	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
	Use BELDEN No. 8401 or 8421
	Use BELDEN No. 8430 (Two Conductor-Unshielded)
	8429 (Two Conductor-Shielded)
	8419 (Three Conductor-Shielded)

TT-5925 AMP CHASSIS—TOP VIEW





MODEL TT-5925 CHANNEL 2 AMP. CHASSIS BOTTOM VIEW

TRouble CHART

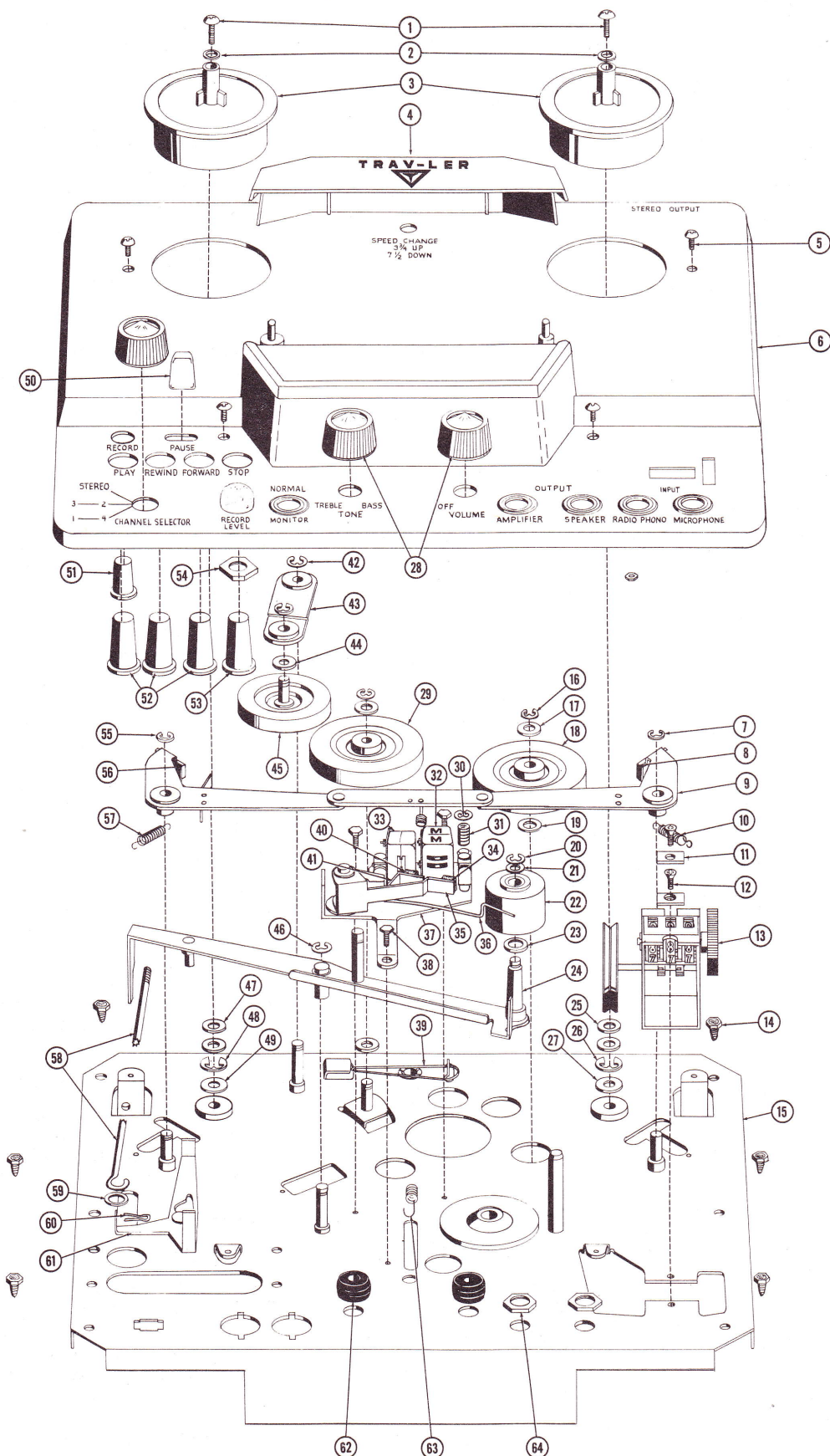
Symptom	Cause	Remedy
Take-up reel does not revolve in Play or Record position.	<ol style="list-style-type: none"> 1. Take-up idler spring (85) off or broken. 2. Oil on rim of take-up idler wheel (87). 3. Clutch slipping on clutch wheel assembly. 	<ol style="list-style-type: none"> 1. Replace take-up idler spring (85). 2. Moisten cloth in alcohol, and clean rubber rim. 3. Reposition clutch pulley (73) on shaft, and tighten allen-head screw.
Take-up reel does not revolve in fast forward position.	<ol style="list-style-type: none"> 1. Oil on rim of fast forward idler wheel (18). 2. Fast forward lever spring (111) off or broken. 3. Fast forward idler spring (83) off or broken. 	<ol style="list-style-type: none"> 1. Moisten cloth in alcohol and clean rubber rim. 2. Replace fast forward lever spring (111). 3. Replace fast forward idler spring (83).
Supply reel does not revolve in rewind position.	<ol style="list-style-type: none"> 1. Oil on second rewind idler wheel (45) or rewind drive idler wheel (29). 2. Rewind idler spring (106) off or broken. 	<ol style="list-style-type: none"> 1. Moisten cloth in alcohol and clean rubber rims of wheels (45) and (29). 2. Replace rewind idler spring (106).
Reels do not stop when Stop button is depressed.	<ol style="list-style-type: none"> 1. Brake actuating spring (63) off or broken. 2. Brake lining worn. 3. Brake lever (98) loose on shaft. 	<ol style="list-style-type: none"> 1. Replace brake actuating spring (63). 2. Replace brake lining. 3. Reposition brake lever (98) and tighten all-head screws.
Counter mechanism does not operate.	<ol style="list-style-type: none"> 1. Defective counter (13). 2. Counter belt (68) off or broken. 	<ol style="list-style-type: none"> 1. Check gear teeth in counter for damage. Replace if necessary. 2. Replace counter belt (68).
Volume or tone controls are difficult to turn.	<ol style="list-style-type: none"> 1. Printed circuit assembly not centered. 2. Lack of lubrication or "tacky" condition of rubber grommets. 	<ol style="list-style-type: none"> 1. Reposition printed circuit assembly; align shafts in rubber grommets. 2. Lubricate grommets where the control shafts pass through main mechanism plate.
Loss of high frequencies from previously recorded tape.	<ol style="list-style-type: none"> 1. Record-Play head (32) improperly adjusted. 	<ol style="list-style-type: none"> 1. See "Head Alignment".

TROUBLE CHART (CON'T.)

Symptom	Cause	Remedy
Pitch of sound from prerecorded tape is low.	1. Capstan drive mechanism is slipping.	1. Remove top plate (6). Dampen a pipe cleaner with alcohol and clean all driving surfaces.
Loss of high frequencies in record and playback.	1. Pressure pads (34) and (40) loose or worn. 2. Foreign matter collected in tape-guide channel.	1. Check spring tension of pressure pad spring. If pressure pads are worn, replace. 2. Remove foreign matter with wooden or soft plastic probe. Wipe channel with pipe cleaner or cloth dampened with alcohol.
Noisy pushbutton.	1. Lack of lubrication.	1. Lubricate neoprene pads on pushbutton shafts.
Drive erratic on both speeds.	1. Position of drive pulley (105).	1. Check position of drive pulley (105) on drive motor (81). There should be .218 inch from bottom of drive pulley to top of motor shell.
Speed change shaft binding.	1. Lack of lubrication.	1. Lubricate speed change shaft.
Clicking noise in fast forward or rewind.	1. Damaged program counter.	1. Check program counter for loose springs or lack of lubrication. If necessary, lubricate gear teeth.
Thumping or scraping noise in forward or rewind position.	1. Position of forward and rewind pulley (103) incorrect.	1. If forward and rewind pulley (103) is too high on its shaft, it will scrape the underside of the top plate assembly; if too low, the allen screw opening in the pulley will strike the rubber molded wheel.
Wow or flutter.	1. Improper pressure between capstan and pressure roller (22). 2. Excessive take-up tension. 3. Counter (13) binding. 4. Dirty pressure pads (34) and (40). 5. Pressure roller (22) binding on shaft, damaged. 6. Scored capstan and fly-wheel shaft (74) or bearings. 7. Worn speed change idler wheel assembly (92). 8. Bent fan blades (82) or motor shaft.	1. See "Adjustments". 2. See "Adjustments". 3. Check for dirt or chips in gears and for scored shaft. Clean and lubricate. 4. Saturate pads with alcohol. Brush contact surfaces in direction of normal tape travel. 5. Remove pressure roller (22) and clean bearing with pipe cleaner dampened with alcohol. Clean roller stud; if scored, polish with crocus cloth. Apply a light coating of non-melting grease to the stud before reassembling. If damaged, replace. 6. If shaft is only lightly scored, polish with crocus cloth. If bearings are badly scored, replace. 7. Some dents in the driving surface can be removed by pressing the flat side of a screwdriver blade against the tire while the wheel is revolving. If tire is nicked or torn, replace. 8. Place fan (hub up) on a flat surface. The ends of all blades should contact the surface. If any blades are out of alignment, reshape. If motor shaft is bent, replace motor.

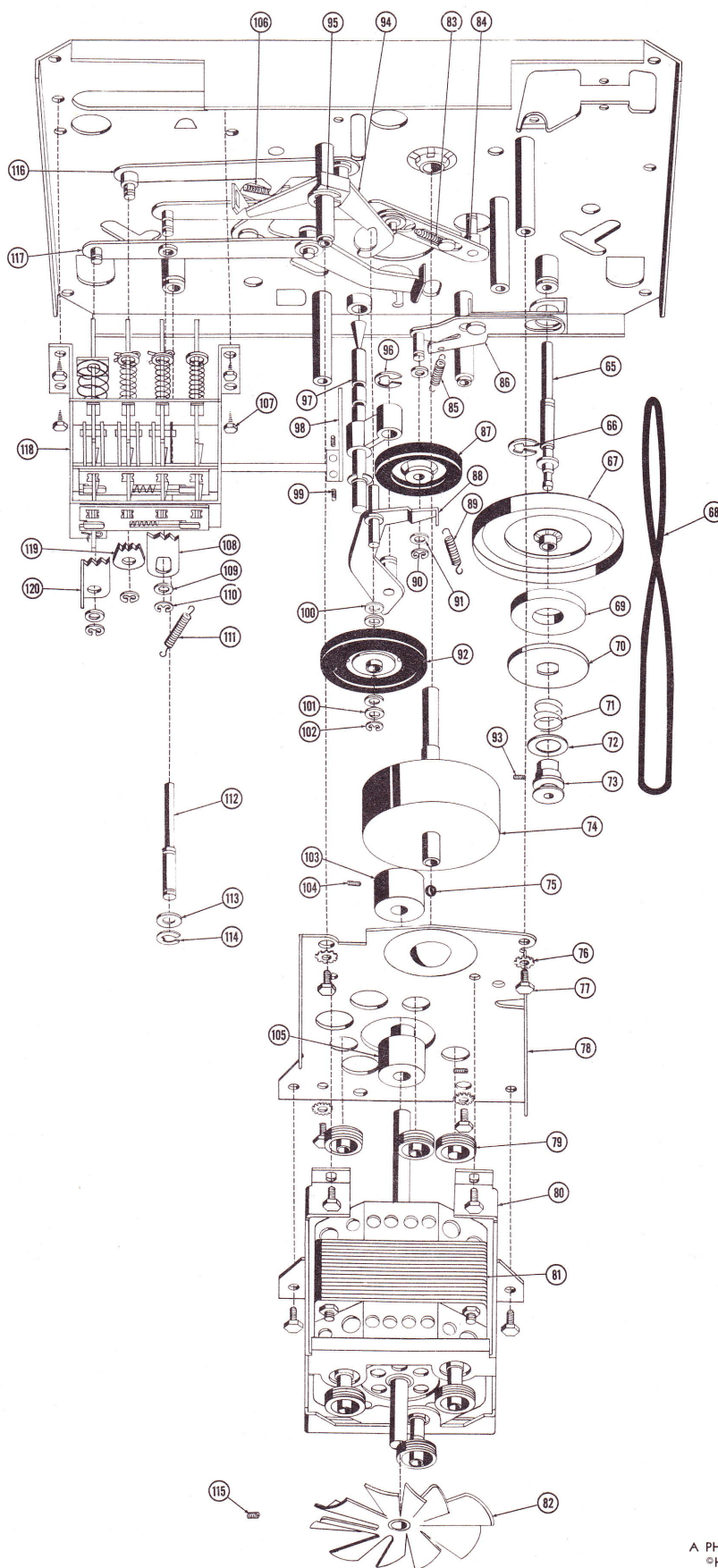
TRAVLER MODELS
TT-595, TT-5925, TTS-5930

FOLDER 15



A PHOTOFACT "EXPLODED" VIEW
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EXPLODED VIEW OF PARTS ABOVE PLATE ASSEMBLY



A PHOTOFACT "EXPLODED" VIEW
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EXPLODED VIEW OF PARTS BELOW PLATE ASSEMBLY

MECHANICAL PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	700245	#4-40 x 1/4 Truss Hd. Phil. Screw	55	700890	"E" Ring, .187
2	700716	.116 x .281 x .020 Washer	56	800478	Brake Lining
3	800423	Reel Spindle	57	800563	Brake Spring
4	MP-172	Head Cover - Model TT-595	58	800607	Remote Control Link - TT-595
5	700245	#4-40-1/4 Truss Hd. Phil. Screw	59	700797	.191 x 7/16 Fiber Washer -TT-595
6	800504	Top Plate Ass'y. -Model TT-595	60	700553	1/16 x 3/8 Cotter Pin - TT-595
	MS-793	Top Plate Ass'y. -Model TT-5925	61		Pause Lever -TT-595
7	700890	"E" Ring, .187	62	701367	Rubber Grommets
8	800478	Brake Lining	63	800572	Brake Actuating Spring
9	076190	Brake Ass'y.	64	800728	Jack Lock Nuts
10	800563	Brake Spring	65	800461	Take-up Spindle Shaft
11	800599	Counter Mounting Clip	66	700896	"E" Ring, .437
12	700245	#4-40 x 1/4 Screw	67	076196	Clutch Wheel Ass'y.
13	076261	Counter Ass'y.	68*	*800544	*Counter Belt
14	700348	Hex Head Screws	69	800459	Clutch Lining
15	076189	Mechanism Plate Ass'y.	70	800458	Clutch Plate
16	700890	"E" Ring, .187	71	800460	Clutch Spring
17	700797	.191 x 7/16 Fiber Washer	72	800655	.484 x 3/4 x .010 Fiber Washer
18	076239	Fast Forward Idler Wheel	73	800542	Clutch Pulley
19	700797	.191 x 7/16 Fiber Washer	74	076231	Capstan & Flywheel Ass'y.
20	700890	"E" Ring, .187	75	800568	Ball Bearing, .1875 Dia.
21	700806	.191 x .355 x .015 Nylon Washer	76	700734	#10 Ext. Tooth Washer
22*	800714*	* Pressure Roller	77	700230	#10-32 x 3/8 Hex Head Screw
23	700807	.257 x .437 x .015 Nylon Washer	78	800434	Subplate
24	076185	Pressure Roller Lever Ass'y.	79	701338	Rubber Shock Mount
25	700797	.191 x 7/16 Fiber Washer	80	800435	Motor Mounting Plate
26	700889	"E" Ring, .250	81	701426	Drive Motor
27	700798	.265 x 1/2 x .030 Fiber Washer	82	701587	Fan
28	K-361	Volume, Tone, & Channel Selector Knobs -TT-595	83	800548	Fast Forward Idler Spring
	K-460	Volume Control Knob, Inside - TT-5925	84	076260	Forward Idler - Lever Ass'y.
	K-462	Volume Control Knob, Outside - TT-5925	85	800545	Take-up Idler Spring
	K-415	Channel Selector Knob -TT-5925	86	076192	Take-up Idler Lever Ass'y.
	K-458	Tone Control Knob - TT-5925	87	076204	Take-up Idler Wheel
29	076180	Rewind Drive Idler Wheel	88	076198	Speed-Change Link Ass'y.
30	700897	"E" Ring	89	800587	Speed Change Spring
31	800546	Azimuth Spring	90	700890	"E" Ring, .187
32	70607	Record-Play Head - TT-595	91	700797	Fiber Washer
	MT-5	Record-Play Head -TT5925	92	076180	Speed Change Idler Wheel
33	70608	Erase Head - TT-595	93	700424	Set Screw
	MT-6	Erase Head - TT-5925	94	800576	Retractor
34	IM-289	Pressure Pad	95	700894	"E" Ring, .375
35	800598	Record & Play Pressure Pad Arm	96	700895	"E" Ring, .312
36	800476	Pressure Roller Spring	97	076199	Speed Change Shaft
37	076194	Head Mtg. Brkt. Ass'y.	98	800624	Brake Lever
38	700345	Hex Head Sheet-Metal Screw	99	700438	#6-32 x 3/16 Cone Pt. Set Screw
39	800587	Speed-Change Shaft Spring	100	700806	.191 x .375 x .015 Nylon Washer
40	800564	Pressure Pad	101	700806	.191 x .375 x .015 Nylon Washer
41	800532	Erase Pressure Pad Arm	102	700890	"E" Ring, .187
42	700890	"E" Ring, .187	103	800520	Forward & Rewind Pulley
43	076191	Rewind Idler Arm Ass'y.	104	700420	8-32 x 1/4 Set Screw
44	700797	.191 x 7/16 Fiber Washer	105	800462	Drive Pulley
45	076183	Second Rewind Idler Wheel	106	800477	Rewind Idler Spring
46	700890	"E" Ring, .187	107	700348	#10 x 1/4 Hex Head Sheet Metal Screw
47	700797	.191 x 7/16 Fiber Washer	108	076200	Forward Lever Link Ass'y.
48	700889	"E" Ring, .250	109	700712	.196 x 7/16 x .030 Washer
49	700798	.265 x 1/2 x .030 Fiber Washer	110	700890	"E" Ring, .187
50		Pause Button - TT-595	111	800547	Fast Forward Lever Spring
51	K-360	Record Button -TT-595	112	800479	Rewind Spindle Shaft
		Record Button, Brown -TT-5925	113	700798	.265 x 1/2 x .030 Fiber Washer
52	K-359	Pushbuttons - TT-595	114	700889	"E" Ring, .250
		Pushbuttons, Brown - TT-5925	115	700420	Set Screw
53	800441	Stop Button	116	076184	Rewind Lever Ass'y.
54	700477	Hex Nut, 9/16-27	117	076186	Take-up Arm Ass'y.
			118	076288	Pushbutton Ass'y.
			119	076202	Rewind Lever Link Ass'y.
			120	076201	Pressure Roller Link Ass'y.

* Pressure Roller, WALSCO Part No. 1488

* Counter Drive Belt, WALSCO Part No. 1410-54